

# TSP2000S Pulses generator User's Manual



Made by TROY Enterprise Co., Ltd



## Environment Responsibility

- TROY is always committed to environment protection. All packaging material is recyclable and reusable.
- If disposing of used product, please recycle by type as per waste disposal procedures.  
-----Protect the green earth with your care and commitment-----

※The product is subject to design modification for performance improvement without prior notice. For more details please contact your local seller.

## Precautions

### Precautions for using

1. Thank you for purchasing TROY products. Please read this user's manual thoroughly before installing and operating the driver, and always keep the manual where it is readily available.
2. The products described in this manual has been designed and manufactured for use in industrial machinery, and must not be used for any other purpose. We are not responsible for any damage caused through failure to observe this warning.
3. Check that the motor, driver and any accessories are all present. If an accessory is missing or damaged, contact the nearest our branches.
4. Never disassemble the motor and driver. Damage or performance impairment may result. Disassembly voids all warranties.

### Precautions for maintenance

Check the ambient environments, clean the system equipment to remove dust and tighten the screws periodically. Also pay attention to the followings.

1. Contact us when repairs become necessary.
2. Since the temperature of the frame of the driver can rise high, be careful when conducting maintenance work or inspection work.

### Precautions for warranty period

Within the period of one year after delivery of the system equipment, when failures occurring from design error or fabrication error attributable to the manufacture side occur, we will be repairing the failure free of charge within the reparable range or will replace with substitute. (We cannot hold ourselves responsible for breakage and accidents occurring from your use beyond the specified range described in this document.)

### Precautions for disposal

When disposing of the driver and the motor, treat them as ordinary industrial waste.

# Contents

1.Functions.....	1
1.1 11 pins connector.....	1
1.2 Box header flat cables.....	1
2.Wiring.....	2
3.Dimension.....	3

※ For any operational or technical question with the product, please contact us for professional service 「**0800-450-168**」 during our business hours.

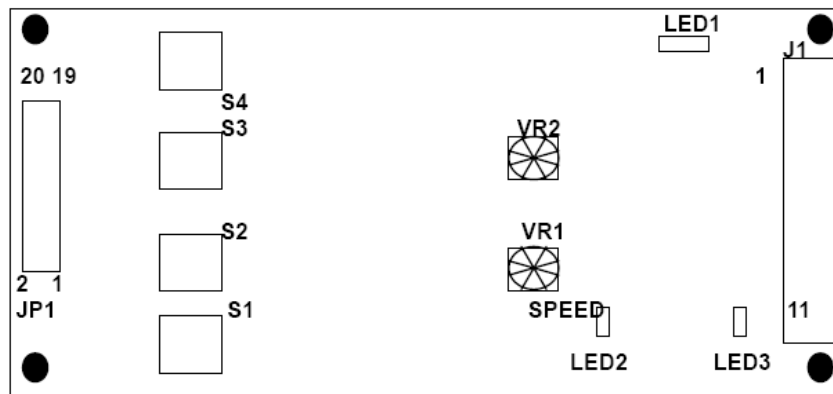
## 1.Functions

### ( 1.1 ) 11 pins connector:J1

Pin No.	Input/Output	Name	Function
1.	Output	PULSE OUT+	DC +5V
2.	Output	PULSE OUT+	PULSE output(Minus logical) Pulse numbers:1~9999 Pulse speed:100~200 pps
3.	Input	0V	Power input
4.	Input	+5V~+24V	Power input
5.	Input	VDD	Output/Input signal,Power input(+5V~+24V)
6.	Input	VSS	Output/Input signal,Power input(0V)
7.	Input	START	External input"Start" signal
8.	Input	SCAN	External input"Continue operation"signal
9.	Input	STOP	External input"Stop pulse"signal
10.	Output	BUSY	Internal output"Operating now" signal
11.	Output	READY	Internal output"Operating end" pulse:Within 55 ms

### ( 1.2 ) 20 pins of box header flat cable

Pin No.	Input/Output	Name	Function
1.	Input	VDD1	Output/Input signal,Power input(+5~+24V)
2.	Input	VSS1	Output/Input signal,Power input(0V)
3.	Input	VDD1	Output/Input signal,Power input(+5~+24V)
4.	Input	VSS1	Output/input signal,power input(0V)
5.	Input	E-DA1	Pulse numbers setting:1
6.	Input	E-DA2	Pulse numbers setting:2
7.	Input	E-DA3	Pulse numbers setting:4
8.	Input	E-DA4	Pulse numbers setting:8
9.	Input	E-DB1	Pulse numbers setting:10
10.	Input	E-DB2	Pulse numbers setting:20
11.	Input	E-DB3	Pulse numbers setting:40
12.	Input	E-DB4	Pulse numbers setting:80
13.	Input	E-DC1	Pulse numbers setting:100
14.	Input	E-DC2	Pulse numbers setting:200
15.	Input	E-DC3	Pulse numbers setting:400
16.	Input	E-DC4	Pulse numbers setting:800
17.	Input	E-DD1	Pulse numbers setting:1000
18.	Input	E-DD2	Pulse numbers setting:2000
19.	Input	E-DD3	Pulse numbers setting:4000
20.	Input	E-DD4	Pulse numbers setting:8000



JP1:20 pins box header flat cables

S4:Pulse numbers setting,knob(digit in thousands)

S3:Pulse numbers setting,knob(digit in hundreds)

S2:Pulse speed setting,knob(digit in tens)

S1:Pulse numbers setting,knob(digit in units)

J1:11 pins connector

VR1(SPEED): pulse speed setting

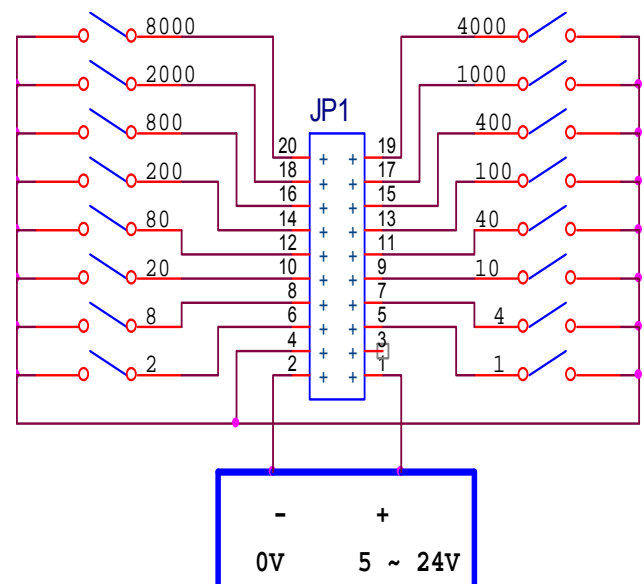
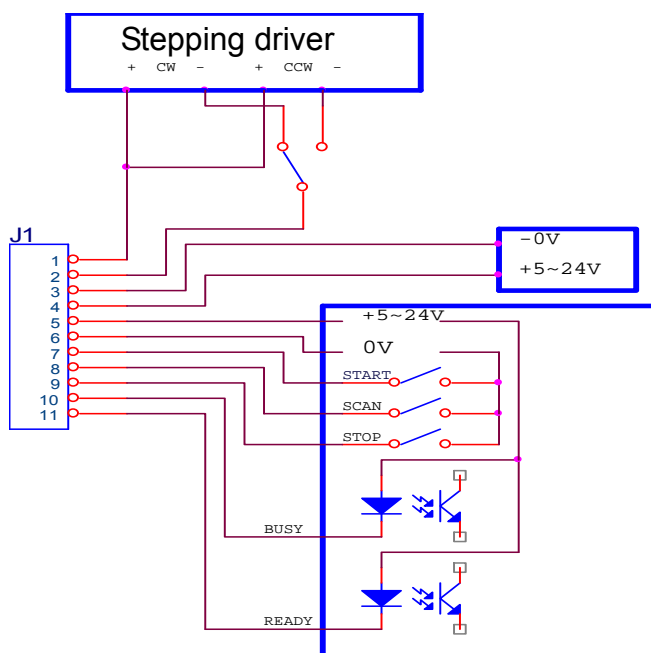
VR2:READY pulse width setting

LED1:Power indicator(Green)

LED2:Pulse output indicator(Yellow)

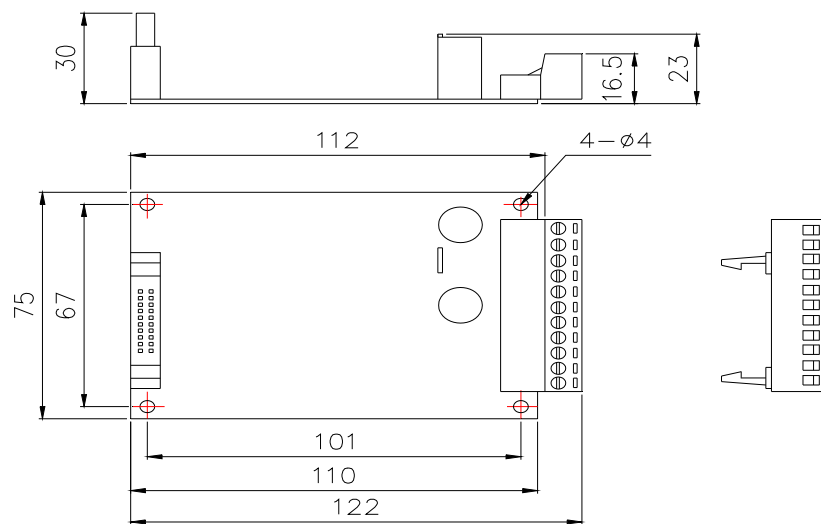
LED3:Operation indicator(Red)

## 2.Wiring



- When selected the digital knob, please set the box header flat cable at Open circuit mode(Or not connect)
- When selected the box header flat cable, please set the digital knob at "0000"
- Please use the power cable as short and thickness as possible without causing common impedance
- The wiring of connected to the control device(Switch) and driver, please use the twisted cables
- Wiring length keep within 3 m and keep each 10 cm between noise source, relay, solenoid  
( PULSE OUT+and PULSE OUT- wiring length peep within 1 m )

### 3.Dimension



\* For environment protection, paper saving and resources preservation, please download the user's manual directly from SUNHOLY website : [http:// www.sunholy.com.tw](http://www.sunholy.com.tw)

Our constant aim : Demand for professionalism

Our belief : Commitment to every detail

Our innovation : Introduction of cutting-edge equipments

Our pride : Pursuit of superior products

We are confident that each SUNHOLY products bears tests

**For we are highly motivated !**

### **Complete SUNHOLY service system**

We offer our customers a complete service package :

- ⊕ 『 0800-450-168 technical hotline service 』
- ⊕ 『 Periodical motor E-newspaper 』
- ⊕ 『 Motor selection and calculation service 』
- ⊕ 『 Professional on site service 』
- ⊕ 『 On-site motor technical seminar service 』
- ⊕ 『 Total motor solution & after sales service 』

Ready for request!.



**SUNHOLY TRADING CO., LTD**

**Professional agency**

3F, No78., Sec2, Chang An E.RD. Taipei, Taiwan.

TEL : +886-2-2516-6060

FAX : +886-2-2508-0323

<http://www.sunholy.com.tw>

E-mail: [sales@sunholy.com.tw](mailto:sales@sunholy.com.tw)